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Dirk Kempinorne, Governor C, Stephen Alfred, Director

January 29, 2001

Kathleen Hain US Department of Energy – IOO 850 Energy Dr. Idaho Falls, ID 83401-1563

Subject: WAG 13/14 Remedial Investigation and Feasibility Study (RI/FS)

Dear Ms. Hain:

As discussed in prior meetings and correspondence, the Department of Environmental Quality (DEQ) does not consider the RI/FS proposed by DOE to be sufficient to read a supportable decision for the remediation of the transuranic pits and trenches at WAG 13/14. Although DOE and DEQ have agreed on the suite of potential remedial alternatives to be evaluated, the RI/FS proposed by DOE does not provide adequate information to determine the appropriate combination of alternatives and process methods.

Following our meeting of December 19, 2000, the attached table was prepared with DEQ management to describe the minimum information needed to reach a supportable decision. The table includes a strawman alternative used as a foundation to determine what information is needed to discriminate among alternatives and process methods.

DEQ believes that this issue has remained unresolved for too a long period, which will delay needed action in the long term. Within 45 days, we need DOE to provide us with a plan and schedule for meeting these information needs as part of the RI/FS process. We are prepared to work with DOE and EPA on this issue, but if we cannot resolve the issue quickly, we will need to resolve our dispute under Section IX of the FFA/CO.

Sincerely,

Dean J. Nygard

Site Remediation Program Manager

Waste Management and Remediation Division

DJN:tg

attachment

STR AN REMEDY: Localized retrieval with in situ grouting of containing waste areas and containment via slurry wall and cap; continuation of vapor vacuum extraction as necessary.

		Remedial	Remedial Alternatives and Data Noods
Remedy	Ouestions to Resolve for	Data to Make the	Method
	the Decision	Decision	
Retrieval	Remedial Investigation:	Waste locations	Confirm historic inventory through waste manning with GIS
(strawman	Are there areas posing	Waste volumes	probling, geophysics and selected physical sampling of waste and
assumes	sufficient risk to require	Waste	contaminated media.
localized	retrieval?	concentrations	
retrieval)		(radiological &	Selected physical samples are necessary because;
	• What is the radioactive &	chemical,	• Experience and anecdotal evidence indicate a need for physical
	chemical mass that needs to	including	confirmation of historic inventory. For example, recent gamma
	be removed to ensure there	VOCs)	logging of probeholes indicates the presence of a greater mass of
	does not remain an	Waste types	plutonium in some locations than was previously expected.
	unacceptable risk?	-	Other proposed nonphysical data collection methods are limited
	• What is the radioactive		in their ability to confirm waste locations, concentrations, etc.
	mass that must be removed		Selected physical data is necessary to confirm logging mass
	to achieve confidence that		(activity), concentrations and determine location of "hot spots."
	there will not be a		 Physical data may also be used to try to correlate the huried, pre-
	criticality event?		1970 Rocky Flats inventory with above-ground stored, post-
			1970 Rocky Flats inventory. If wastes can be correlated.
	Feasibility Study:	FS: Comparative	information from more accessible, post-1970 inventory may be
	What is the relative	cost, effectiveness,	used to make remedial decisions on pre-1970 waste.
	effectiveness, cost and	implementability	
	implementability of retrieval	of retrieval process	FS: Because of absence of retrieval of TRU waste at other DOE
والمراجع المراجع المرا	based on remedial	options	sites under current requirements, some scaled demonstration of
	investigation data?		retrieval technology is needed to fairly estimate cost, effectiveness
			and implementability of retrieval process options. Independent
	What is anticipated scale and		review of design assumptions, applicability of administrative
	what are the corresponding		requirements (e.g., DOE orders) and DOE cost estimates.
	process options for retrieval?		

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	 FS: Treatablity Study to test grouting process options for INEEL waste types Cold Test on simulated waste forms to test application of grouting operation, leachability, and long-term durability. Evaluate grout mixes. Evaluate interference effects from organic sludge waste form on grout strength, permeability, and longevity; laboratory tests to evaluate VOC diffusion through grout. 	Sampling of underburden and leachate. Treatability Study to test ISV process option for INEEL waste types	
Data to answer RI (same as identified under retrieval)	FS: Determine the stability of stabilized waste forms. Determine the leaching rate from stabilized waste.	effectiveness & implementability and process options for stabilization.	
RI: what areas pose an unacceptable risk and are candidate sites for evaluation of stabiliziation in the FS?	FS: What are the process options for stabiliziation? What are the effectiveness, implementability and cost of stabiliziation process options in controlling migration of contaminants in the SDA?		
Stabiliza- tion (strawman assumes grout)	<u>-</u>		

	Freatability Study aboratory Tests to determine diffusion rates.			
	Treatability Study Laboratory Tests t	-		
Data to answer Retrieval RI questions should also answer containment questions.	FS: Comparative costs, effectiveness & implementability and process options • Hydraulic conductivity • Diffusion rate of VOCs through the confaminated	material	 -	-
RI: what areas need to be isolated to avoid unacceptable risk from remaining contamination?	FS: What are the effectiveness, implementability and cost of a cap and slurry wall in controlling migration of contaminants in the SDA?	What is need for continued vapor extraction?		
Containment (strawman assumes slurry wall, cap &	continued vapor extraction)			